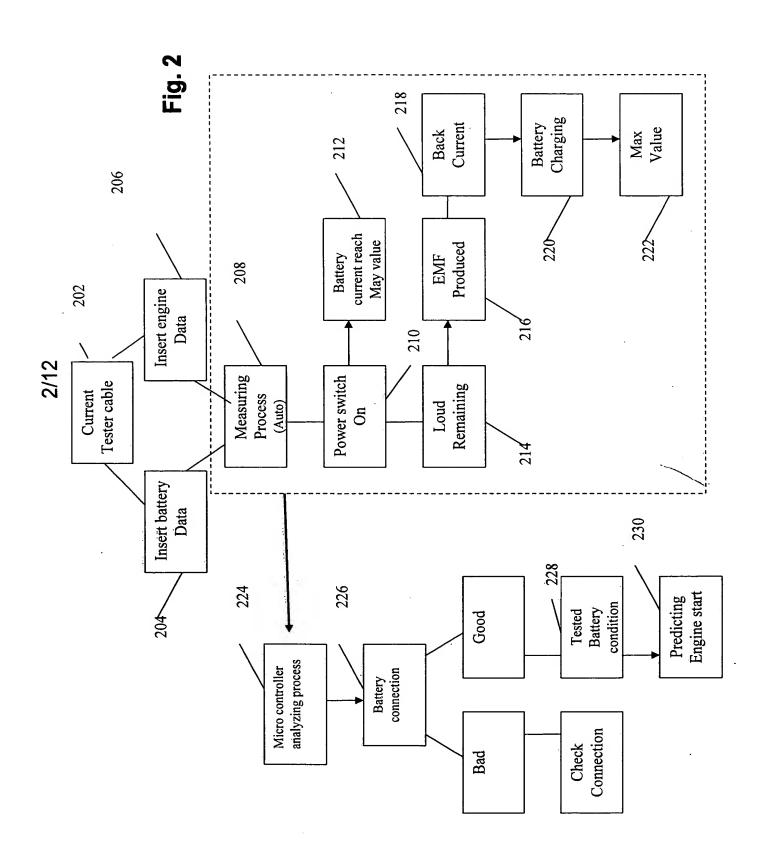


Fig.1



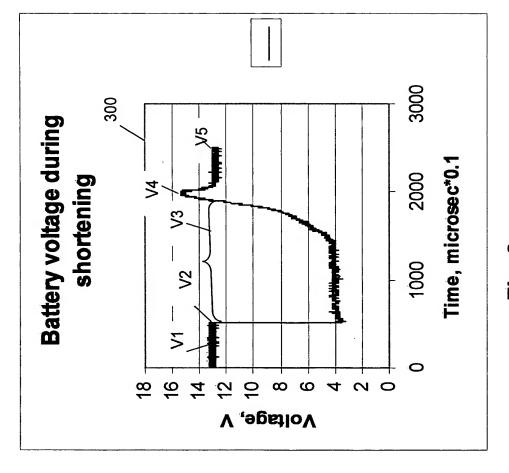


Fig. 3

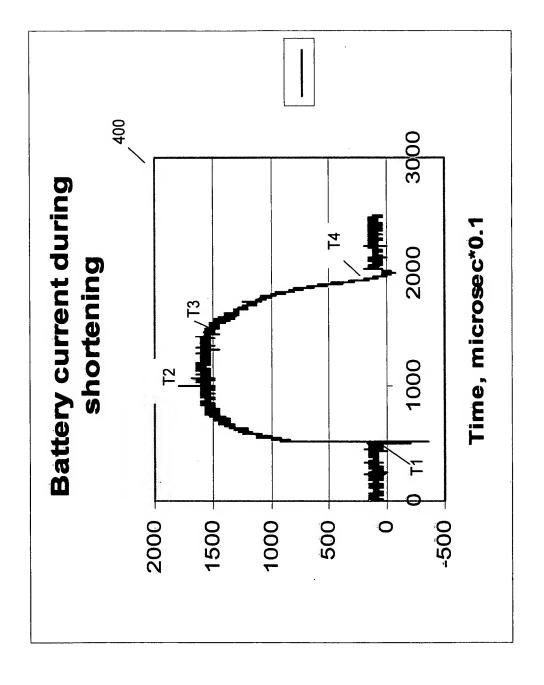
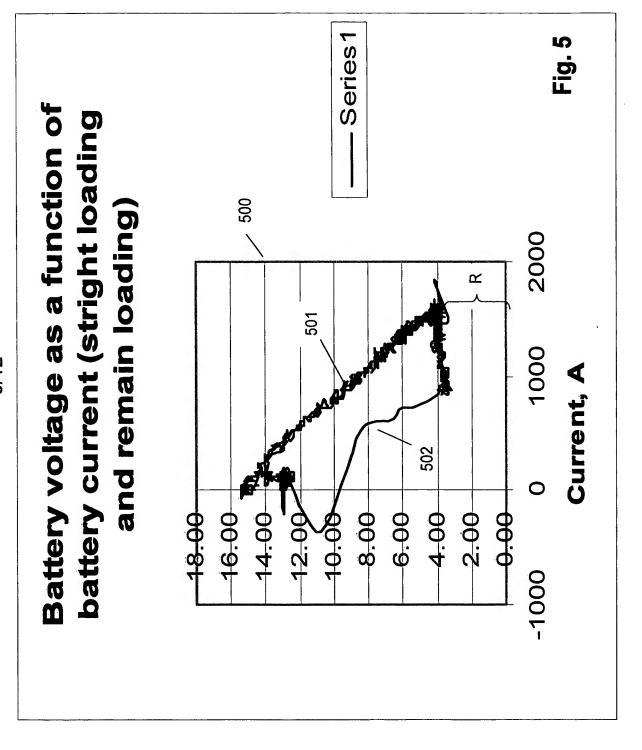
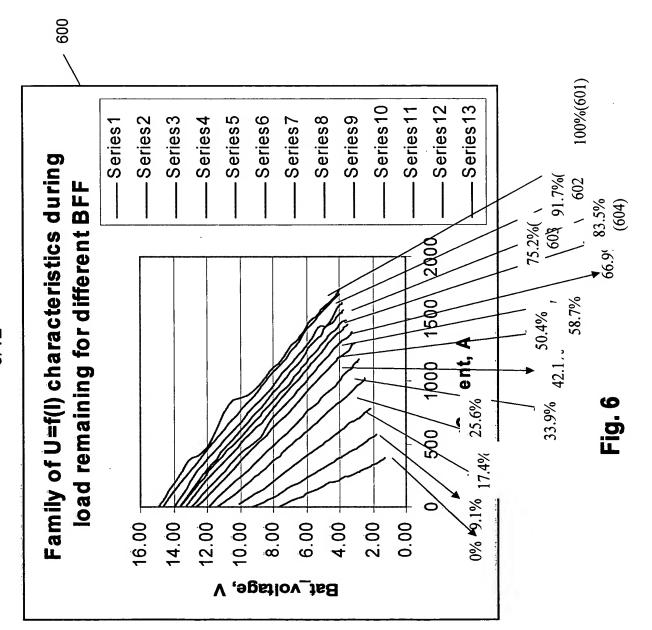


Fig. 4





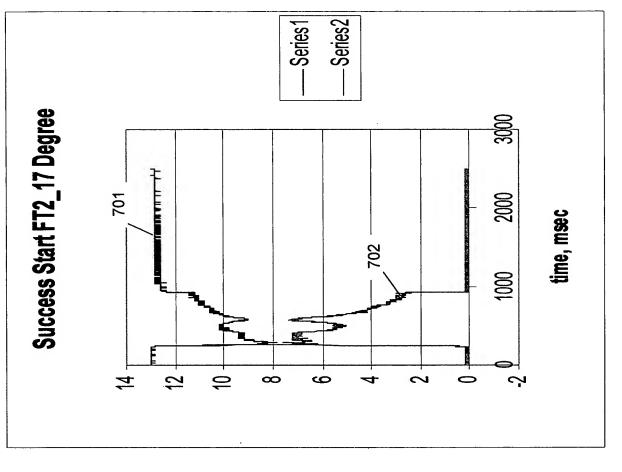


Fig. 7

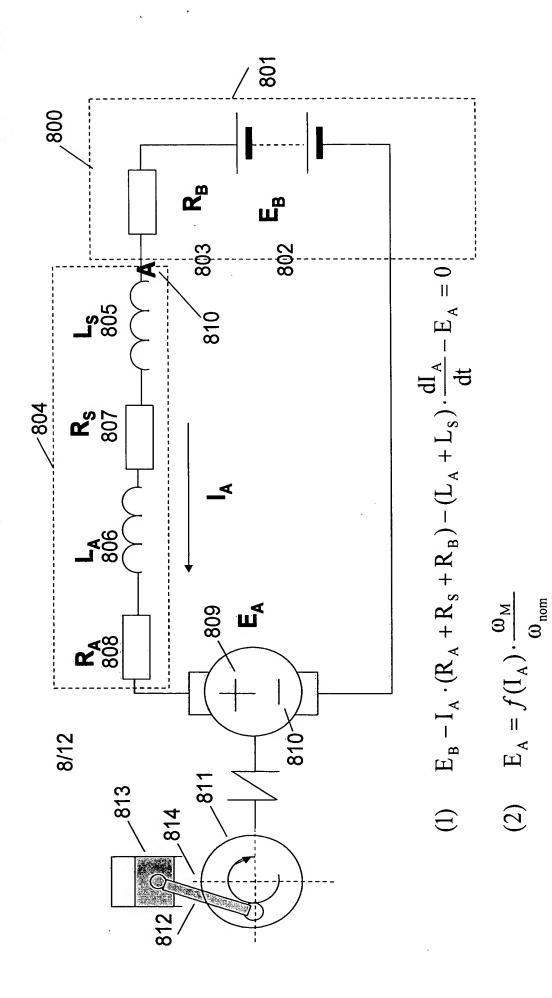


Fig.8

(4)
$$J_{T} \cdot \frac{\Delta M}{dt} = \tau_{M} - \tau_{R}$$
(5)
$$\tau_{R} = f(\alpha_{M}, V_{E}, n_{C}, \theta)$$

(7)

(3)

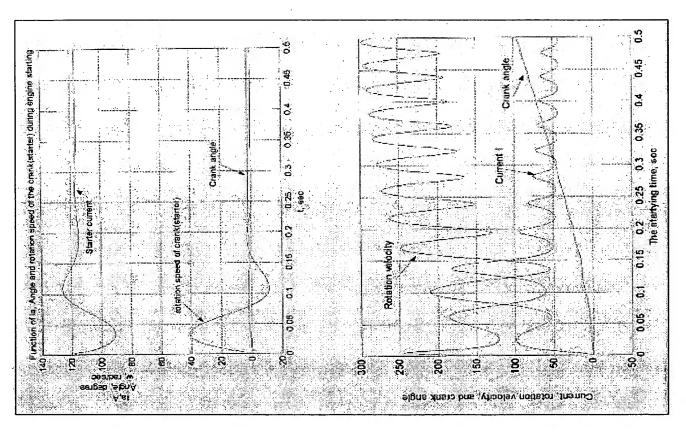


Fig. 9A

Fig. 9B

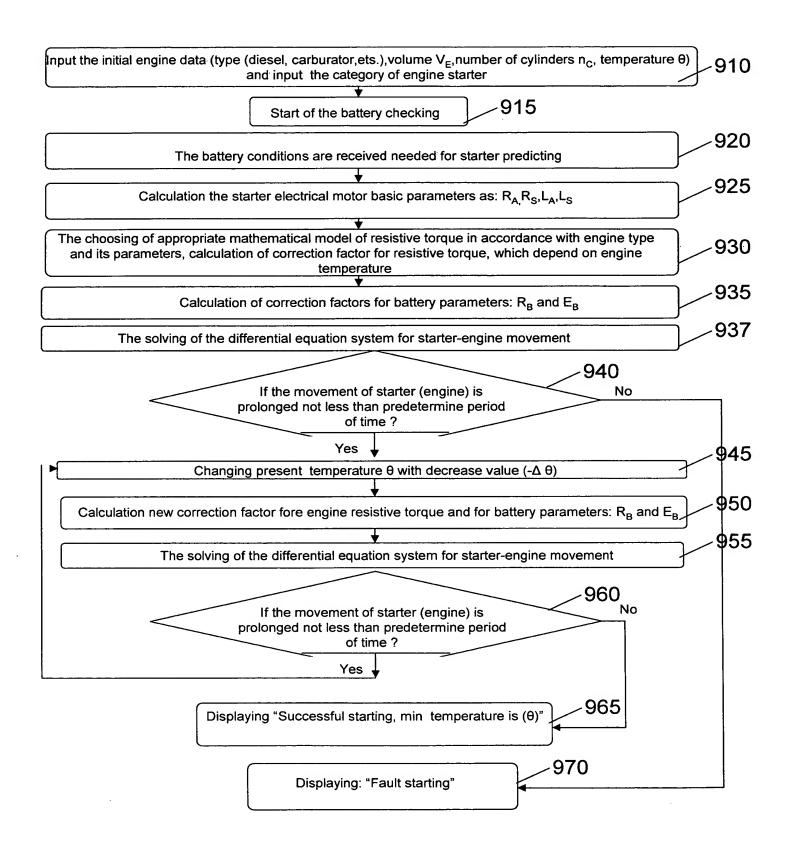


Fig.10

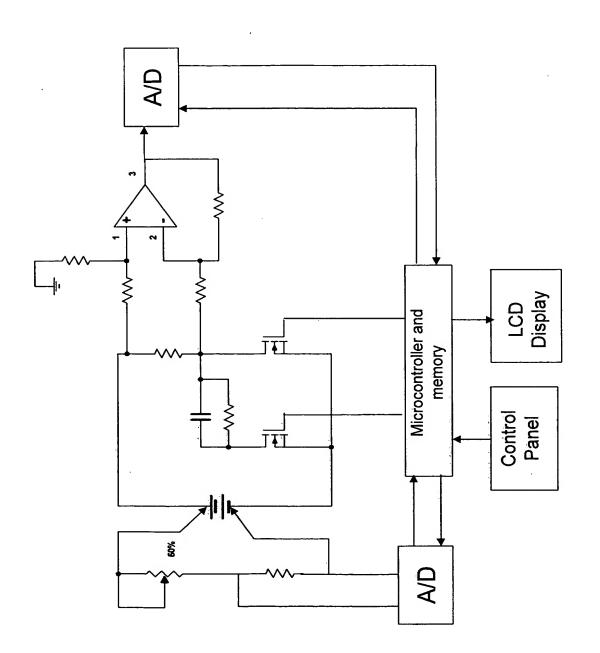


Fig. 11

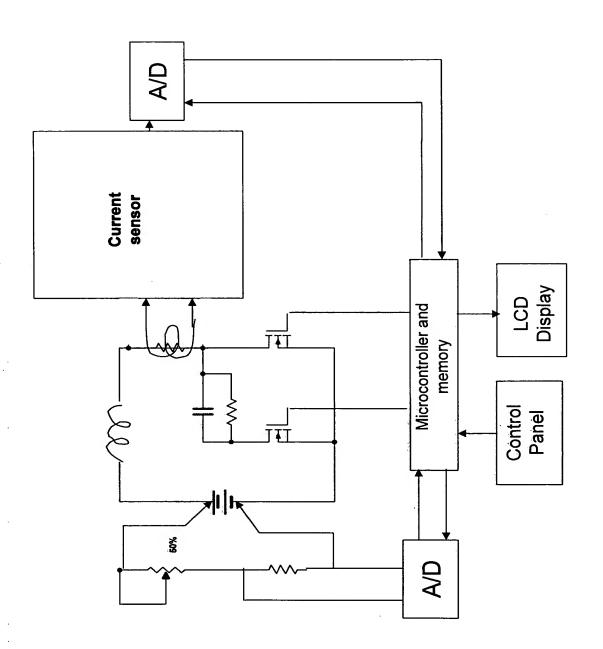


Fig.12